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(54) COMPOSITE METAL PLATE

(57)Abstract:

PURPOSE: To obtain a composite metal plate having good heat resistance to be used for a magnetic core and the like, by laminating a plurality of metal thin plates through a specific adhesive insulating composition and heating and adhering integrally them.

CONSTITUTION: An adhesive insulating composition is constituted of either 100pts.wt. one or two or more of inorganic polymers selected from polyborosiloxane, polycarbosilane, polysilastyrene, polysilazane and polytitanocarbosilane or 100pts.wt. inorganic polymers consisting of a mixture of 95W5wt.% thereof and 5W95wt.% silicone, and 5W200pts.wt. insulating inorganic filler. The inorganic polymer is a polysiloxane whose IR absorbance ratio D1350(B-O)/D1090(Si-O) is 0.10W0.40 and the insulating inorganic filler is constituted of one or two or more selected from titanium oxide, silicon oxide, magnesium oxide and so on. A plurality of amorphous metal thin plates or silicon steel plates are laminated through the above described adhesive insulating composition and integrally heated and adhered to form a composite metal plate.

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